

# **Iowa Department of Natural Resources**

## **Title V Operating Permit**

**Name of Permitted Facility:** University of Iowa  
(Main Campus and Hospitals)  
**Facility Location:** 4 Jessup Hall  
Iowa City, Iowa 52242-1316

**Air Quality Operating Permit Number:** 00-TV-002-M001  
**Expiration Date:** January 6, 2005

**EIQ Number:** 92-6571  
**Facility File Number:** 52-01-005

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### **Responsible Official**

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### **Permit Contact Person for the Facility**

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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit. Two Title V Permits are being issued for the University of Iowa (one stationary source). This permit is for the Main Campus and Hospitals portion of the university and permit 00-TV-001 is for the Power Plant.

**For the Director of the Department of Natural Resources**

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Douglas A. Campbell, Supervisor of Air Operating Permits Section

Date

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## **Abbreviations**

acfm.....	actual cubic feet per minute
CFR .....	Code of Federal Regulations
°F .....	degrees Fahrenheit
EIQ .....	emissions inventory questionnaire
gr/dscf.....	grains per dry standard cubic foot
IAC .....	Iowa Administrative Code
IDNR .....	Iowa Department of Natural Resources
MVAC .....	motor vehicle air conditioner
NSPS .....	new source performance standards
lb/hr .....	pounds per hour
lb/MMBtu .....	pounds per million British thermal units
USEPA .....	United States Environmental Protection Agency

## **Pollutants**

PM.....	particulate matter
PM <sub>10</sub> .....	particulate matter that is 10 microns or smaller
SO <sub>2</sub> .....	sulfur dioxide
NO <sub>x</sub> .....	nitrogen oxide
VOC .....	volatile organic compound
CO .....	carbon monoxide
HAP.....	hazardous air pollutant
TSP.....	total suspended particulate

# I. Facility Description and Equipment List

Facility Name: University of Iowa, Main Campus and Hospitals

Permit Number: 00-TV-002-M001

Facility Description: Learning and Research, and Medical Institution

## Equipment List

<b>Emission Point Number</b>	<b>Associated Emission Unit Number</b>	<b>Associated Emission Unit Description</b>
<b>EP-002-1</b>	<b>EU-002-GEN-1</b>	<b>Schaeffer Hall Generator</b>
<b>EP-003-1</b>	<b>EU-003-GEN-1</b>	<b>Chemistry/Botany Building Generator</b>
<b>EP-003-2</b>	<b>EU-003-GEN-2</b>	<b>Chemistry/Botany Annex Building Generator</b>
<b>EP-006-1</b>	<b>EU-006-GEN-1</b>	<b>Pharmacy Generator (dual stack 1 )</b>
<b>EP-006-2</b>	<b>EU-006-GEN-1</b>	<b>Pharmacy Generator (dual stack 2)</b>
<b>EP-006-3</b>	<b>EU-006-HOOD-1</b>	<b>Hot Plate Hood - Pharmacy</b>
<b>EP-006-4 EP-006-5 EP-006-6 EP-006-7</b>	<b>EU-006-TAB-1</b>	<b>Pharmacy Tablet Manufacturing Room 44C</b>
<b>EP-006-4 EP-006-5 EP-006-6 EP-006-7</b>	<b>EU-006-TAB-2</b>	<b>Pharmacy Tablet Manufacturing Room 32A</b>
<b>EP-006-4 EP-006-5 EP-006-6 EP-006-7</b>	<b>EU-006-TAB-3</b>	<b>Pharmacy Tablet Manufacturing Room 32H</b>
<b>EP-006-4 EP-006-5 EP-006-6 EP-006-7</b>	<b>EU-006-TAB-4</b>	<b>Pharmacy Tablet Manufacturing Room 32C</b>
<b>EP-006-4 EP-006-5 EP-006-6 EP-006-7</b>	<b>EU-006-TAB-5</b>	<b>Pharmacy Tablet Manufacturing Room 32F</b>
<b>EP-006-4 EP-006-5 EP-006-6 EP-006-7</b>	<b>EU-006-TAB-6</b>	<b>Pharmacy Tablet Manufacturing Room 43B</b>
<b>EP-006-4 EP-006-5 EP-006-6 EP-006-7</b>	<b>EU-006-TAB-7</b>	<b>Pharmacy Tablet Manufacturing Room 43E</b>

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**Equipment List Continued**

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<b>EP-018-2</b>	<b>EU-018-GEN-2</b>	<b>Biology Generator- New Temporary</b>
<b>EP-021-4</b>	<b>EU-021-KILN-7</b>	<b>Wood Fired Chamber Kiln</b>
<b>EP-021-5</b>	<b>EU-021-KILN-8</b>	<b>Wood Fired Kiln</b>
<b>EP-021-6</b>	<b>EU-021-KILN-9</b>	<b>Wood Fired Kiln</b>
<b>EP-021-15</b>	<b>EU-021-CLAY-1</b>	<b>West Clay Mixer (dual stack 1)</b>
<b>EP-021-16</b>	<b>EU-021-CLAY-1</b>	<b>West Clay Mixer (dual stack 2)</b>
<b>EP-021-17</b>	<b>EU-021-CLAY-2</b>	<b>East Clay Mixer (dual stack 1)</b>
<b>EP-021-18</b>	<b>EU-021-CLAY-2</b>	<b>East Clay Mixer (dual stack 2)</b>
<b>EP-021-30</b>	<b>EU-021-SPRAY-1</b>	<b>Spray Booth</b>
<b>EP-022-1</b>	<b>EU-022-GEN-1</b>	<b>Engineering Building Generator</b>
<b>EP-033-1</b>	<b>EU-033-GEN-1</b>	<b>Westlawn Generator</b>
<b>EP-034-1</b>	<b>EU-034-GEN-1</b>	<b>MEB Generator</b>
<b>EP-040-1</b>	<b>EU-040-GEN-1</b>	<b>Fieldhouse Generator</b>
<b>EP-046-2</b>	<b>EU-046-GEN-1</b>	<b>IMU Generator</b>
<b>EP-051-1</b>	<b>EU-051-WOOD- 1</b>	<b>FSG Carpenter Shop</b>
<b>EP-112-1</b>	<b>EU-112-GEN-1</b>	<b>Hillcrest Generator</b>
<b>EP-185-1</b>	<b>EU-185-LIME-1</b>	<b>Water Plant Lime Conveying System</b>
<b>EP-185-2</b>	<b>EU-185-GEN-1</b>	<b>Water Plant Generator</b>
<b>EP-204-1</b>	<b>EU-204-INC-1</b>	<b>Crematorium, Natural Gas Combustion</b>
	<b>EU-204-INC-1A</b>	<b>Crematorium, Waste Combustion</b>
<b>EP-204-2</b>	<b>EU-204-GEN-1</b>	<b>Bowen Science Generator</b>
<b>EP-267-3</b>	<b>EU-267-UST-1</b>	<b>Motor Pool Fuel Tank, Diesel</b>
<b>EP-267-4</b>	<b>EU-267-UST-2</b>	<b>Motor Pool Fuel Tank, E-85</b>
<b>EP-267-5</b>	<b>EU-267-UST-3</b>	<b>Motor Pool Fuel Tank, Gasoline</b>
<b>EP-273-1</b>	<b>EU-273-GEN-1</b>	<b>Rienow Generator</b>
<b>EP-274-1</b>	<b>EU-274-GEN-1</b>	<b>Slater Generator</b>
<b>EP-276-1</b>	<b>EU-276-GEN-1</b>	<b>Daum Generator</b>
<b>EP-277-1</b>	<b>EU-277-GEN-1</b>	<b>Stanley Generator</b>
<b>EP-278-1</b>	<b>EU-278-GEN-1</b>	<b>DSB Generator</b>
<b>EP-304-4</b>	<b>EU-304-GEN-1</b>	<b>Jacobson Building Generator</b>
<b>EP-316-1</b>	<b>EU-316-GEN-1</b>	<b>Lindquist Generator</b>
<b>EP-331-3</b>	<b>EU-331-PNT-1</b>	<b>FSG Paint Booth</b>
	<b>EU-331-PNT-1A</b>	<b>FSG Paint Booth- Solvent Usage</b>
<b>EP-374-1</b>	<b>EU-374-GEN-1</b>	<b>CHA Generator</b>
<b>EP-377-1</b>	<b>EU-377-GEN-1</b>	<b>Boyd Law Generator</b>
<b>EP-391-2</b>	<b>EU-391-GEN-1</b>	<b>Mayflower Generator</b>
<b>EP-398-3</b>	<b>EU-398-GEN-1</b>	<b>Emergency Fan with IC Engine</b>
<b>EP-398-4</b>	<b>EU-398-GEN-2</b>	<b>Emergency Fan with IC Engine</b>
<b>EP-401-1</b>	<b>EU-401-GEN-1</b>	<b>EMRB Generator</b>
<b>EP-418-1</b>	<b>EU-418-GEN-1</b>	<b>IATL Generator (dual stack 1)</b>
<b>EP-418-2</b>	<b>EU-418-GEN-1</b>	<b>IATL Generator (dual stack 2)</b>
<b>EP-430-1</b>	<b>EU-430-GEN-1</b>	<b>PBAB Generator</b>
<b>EP-434-2</b>	<b>EU-434-GEN-1</b>	<b>Levitt Center Generator</b>
<b>EP-445-1</b>	<b>EU-445-GEN-1</b>	<b>Public Safety Generator</b>
<b>EP-447-1</b>	<b>EU-447-GEN-1</b>	<b>MEBRF Generator</b>

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**Equipment List Continued**

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<b>Emission Point Number</b>	<b>Associated Emission Unit Number</b>	<b>Associated Emission Unit Description</b>
<b>EP-448-1</b>	<b>EU-448-GEN-1</b>	<b>New Biology Generator</b>
<b>EP-450-1</b>	<b>EU-450-GEN-1</b>	<b>USB Generator</b>
<b>EP-1</b>	<b>EU1-1</b>	<b>Boyd Tower Generator</b>
<b>EP-2</b>	<b>EU2-1</b>	<b>General Hospital Generator</b>
<b>EP-3</b>	<b>EU3-1</b>	<b>ITS Generator</b>
<b>EP-4</b>	<b>EU4-1</b>	<b>Roy Carver Pavilion Generator</b>
<b>EP-5</b>	<b>EU5-1</b>	<b>John C.P. West Generator</b>
<b>EP-6</b>	<b>EU6-1</b>	<b>John C.P. East Generator</b>
<b>EP-7</b>	<b>EU7-1</b>	<b>John Pappajohn Pavilion Generator</b>
<b>EP-8</b>	<b>EU8-1</b>	<b>South Wing Generator</b>
<b>EP-14</b>	<b>EU14-1</b>	<b>JCP Sterilizing Services</b>
<b>EP-15</b>	<b>EU15-1</b>	<b>Hospital Paint Booth</b>
<b>EP-17</b>	<b>EU17-1</b>	<b>Pomerantz Family Pavilion Eye Clinic Generator</b>
<b>EP-18</b>	<b>EU18-1</b>	<b>Pomerantz Family Pavilion Boiler</b>
<b>EP-19</b>	<b>EU19-1</b>	<b>Carver Pavilion Generator</b>
<b>EP-20</b>	<b>EU20-1</b>	<b>Colloton Pavilion West Fuel Tank</b>
<b>EP-24</b>	<b>EU24-UST-1</b>	<b>PFP Fuel Underground Storage Tank</b>
<b>EP-22</b>	<b>EU22-1</b>	<b>Pappajohn Pavilion Fuel Tank</b>
<b>EP-25</b>	<b>EU25-1</b>	<b>Hospital School Generator</b>
<b>EP-27</b>	<b>EU27-1</b>	<b>Hospital School Wood Shop</b>

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**Insignificant Equipment List**

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
<b>EU-F-SAND</b>	<b>Sand Pile (Inside)</b>
<b>EU-F-SALT</b>	<b>Salt Pile(Inside)</b>
<b>EU-002-AST-1</b>	<b>Generator Fuel Tank, Schaeffer Hall</b>
<b>EU-003-AST-1</b>	<b>Generator Fuel Tank, Chemistry/Botany</b>
<b>EU-F-003-CUT-1</b>	<b>Cutting Torch, Chemistry/Botany</b>
<b>EU-F-003-CUT-2</b>	<b>Cutting Torch, Chemistry/Botany</b>
<b>EU-F-003-PTW-1</b>	<b>Parts Washer, Chemistry/Botany Safety Kleen</b>
<b>EU-006-AST-1</b>	<b>Pharmacy Generator Fuel Tank</b>
<b>EU-F-008-WD-1</b>	<b>Wood Shop Teaching Laboratory</b>
<b>EU-F-011-CUT-1</b>	<b>Cutting Torch, Seashore</b>
<b>EU-018-AST-2</b>	<b>Biology Generator (Temporary) Fuel Tank</b>
<b>EU-F-018-CUT-1</b>	<b>Cutting Torch- Biology</b>
<b>EU-F-018-CUT-2</b>	<b>Cutting Torch- Biology</b>
<b>EU-F-021-CUT-1</b>	<b>Acetylene- Art Building</b>
<b>EU-F-021-CUT-2</b>	<b>Acetylene- Art Building</b>

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**Insignificant Equipment List Continued**

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
<b>EU-F-021-CUT-3</b>	<b>Acetylene- Art Building</b>
<b>EU-F-021-CUT-4</b>	<b>Acetylene- Art Building</b>
<b>EU-F-021-WELD-1</b>	<b>Welding- Art Building</b>
<b>EU-F-021-WELD-2</b>	<b>Welding- Art Building</b>
<b>EU-F-021-WELD-3</b>	<b>Welding- Art Building</b>
<b>EU-F-021-WELD-4</b>	<b>Welding- Art Building</b>
<b>EU-F-021-WELD-5</b>	<b>Welding- Art Building</b>
<b>EU-F-021-WELD-6</b>	<b>Welding- Art Building</b>
<b>EU-F-021-WELD-7</b>	<b>Welding- Art Building</b>
<b>EU-F-26-CUT-1</b>	<b>Cutting Torch</b>
<b>EU-F-26-CUT-2</b>	<b>Cutting Torch</b>
<b>EU-F-26-CUT-3</b>	<b>Cutting Torch</b>
<b>EU-F-27-1</b>	<b>Hospital School Wood Shop</b>
<b>EU-F-27-2</b>	<b>Hospital School Wood Shop</b>
<b>EU-F-27-3</b>	<b>Hospital School Wood Shop</b>
<b>EU-F-27-4</b>	<b>Hospital School Wood Shop</b>
<b>EU-F-27-5</b>	<b>Hospital School Wood Shop</b>
<b>EU-F-27-6</b>	<b>Hospital School Wood Shop</b>
<b>EU-F-27-7</b>	<b>Hospital School Wood Shop</b>
<b>EU-F-27-8</b>	<b>Hospital School Wood Shop</b>
<b>EU-F-028-WELD-1</b>	<b>Welding</b>
<b>EU-033-AST-1</b>	<b>Westlawn Fuel Tank</b>
<b>EU-034-AST-1</b>	<b>MEB Fuel Tank</b>
<b>EU-040-AST-1</b>	<b>Fieldhouse Fuel Tank</b>
<b>EU-F-42-1</b>	<b>Hospital Carpenter Shop</b>
<b>EU-F-42-2</b>	<b>Hospital Carpenter Shop</b>
<b>EU-F-42-3</b>	<b>Hospital Carpenter Shop</b>
<b>EU-F-42-4</b>	<b>Hospital Carpenter Shop</b>
<b>EU-F-42-5</b>	<b>Hospital Carpenter Shop</b>
<b>EU-F-046-WELD-1</b>	<b>Welding</b>
<b>EU-F-058-CUT-1</b>	<b>Cutting Torch, Steam Shop</b>
<b>EU-F-058-CUT-2</b>	<b>Cutting Torch, Steam Shop</b>
<b>EU-F-058-CUT-3</b>	<b>Cutting Torch, Steam Shop</b>
<b>EU-F-058-CUT-4</b>	<b>Cutting Torch, Steam Shop</b>
<b>EU-F-058-CUT-5</b>	<b>Cutting Torch, Steam Shop</b>
<b>EU-F-058-CUT-6</b>	<b>Cutting Torch, Steam Shop</b>
<b>EU-F-136-CUT-1</b>	<b>Cutting Torch, Main Library</b>
<b>EU-F-136-CUT-2</b>	<b>Cutting Torch, Main Library</b>
<b>EU-F-185-LIME-2</b>	<b>Lime Loading (Pneumatic)</b>
<b>EU-F-185-WELD-1</b>	<b>Welding Water Plant</b>
<b>EU-F-188-WD-1</b>	<b>Wood Shop</b>
<b>EU-F-188-WELD-1</b>	<b>Welding</b>

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**Insignificant Equipment List Continued**

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
<b>EU-F-203-WELD-1</b>	<b>Welding</b>
<b>EU-267-UST-4</b>	<b>Motor Pool Waste Oil Tank</b>
<b>EU-278-AST-1</b>	<b>DSB Fuel Tank</b>
<b>EU-F-278-CUT-1</b>	<b>Cutting Torch- DSB Building</b>
<b>EU-F-278-PTW-1</b>	<b>Parts Washer, DSB Building</b>
<b>EU-F-342-CUT-1</b>	<b>Cutting Torch, Cambus Garage</b>
<b>EU-F-342-PTW-1</b>	<b>Parts Washer, Cambus Garage</b>
<b>EU-F-360-CUT-1</b>	<b>Cutting Torch, Ramp 2 Shop Garage</b>
<b>EU-F-360-PTW-1</b>	<b>Parts Washer, Ramp 2 Shop Garage</b>
<b>EU-377-AST-1</b>	<b>Boyd Law Fuel Tank</b>
<b>EU-418-AST-1</b>	<b>IATL Fuel Tank</b>
<b>EU-430-AST-1</b>	<b>PBAB Fuel Tank</b>
<b>EU-003-AST-2</b>	<b>Generator Diesel Fuel Tank- CHEM-BOT BLDG. (Temp.)</b>
<b>EU9-1</b>	<b>Nuclear Med. Hood</b>
<b>EU10-1</b>	<b>P.E.T Facility</b>
<b>EU11-AST-1</b>	<b>Jet Fuel Tank</b>
<b>EU12-WELD-1</b>	<b>Welding</b>
<b>EU13-WELD-1</b>	<b>Welding</b>
<b>EU16-BOOTH-1</b>	<b>Hospital Spray Booth</b>
<b>EU21-1</b>	<b>Colloton Pavilion East Fuel Tank</b>
<b>EU-021-ANL-5</b>	<b>Annealing Area</b>
<b>EU-021-CUT-5</b>	<b>Cutting Torch</b>
<b>EU-021-CUT-6</b>	<b>Cutting Torch</b>
<b>EU-021-CUT-7</b>	<b>Cutting Torch</b>
<b>EU-021-CUT-8</b>	<b>Cutting Torch</b>
<b>EU-021-CUT-9</b>	<b>Cutting Torch</b>
<b>EU-021-CUT-10</b>	<b>Cutting Torch</b>
<b>EU-021-ELEC-1</b>	<b>Electroplating Area</b>
<b>EU-021-ETCH-1</b>	<b>Etching Area</b>
<b>EU-021-FUR-11</b>	<b>Casting Furnace</b>
<b>EU-021-FUR-12</b>	<b>Forge Furnace</b>
<b>EU-021-FUR-13</b>	<b>Ceramic Shell Burnout Kiln</b>
<b>EU-021-FUR-14</b>	<b>Car Bottom Kiln</b>
<b>EU-021-GOLD-1</b>	<b>Goldplating Area</b>
<b>EU-021-KILN-1</b>	<b>Kiln</b>
<b>EU-021-KILN-2</b>	<b>Kiln</b>
<b>EU-021-KILN-3</b>	<b>Kiln</b>
<b>EU-021-KILN-4</b>	<b>Kiln</b>
<b>EU-021-KILN-5</b>	<b>Kiln</b>
<b>EU-021-KILN-6</b>	<b>Kiln</b>
<b>EU-021-MIX-1</b>	<b>Foundry Sand Muller</b>
<b>EU-021-NITR-1</b>	<b>Nitric Acid Tank</b>



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**Insignificant Equipment List Continued**

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
<b>EU-021-SUL-1</b>	<b>Sulfuric Acid Tank</b>
<b>EU-021-UH-9</b>	<b>Unit Heater</b>
<b>EU-021-UH-10</b>	<b>Unit Heater</b>
<b>EU-021-WAX-1</b>	<b>Wax Melting Area</b>
<b>EU-022-AST-1</b>	<b>Engineering Bldg. Generator Fuel Tank</b>
<b>EU-022-BEAD-1</b>	<b>Engineering Bldg. Bead Blaster</b>
<b>EU-022-SOLD-1</b>	<b>Engineering Bldg. Soldering</b>
<b>EU-022-WELD-1</b>	<b>Engineering Bldg. Welding</b>
<b>EU-022-WELD-2</b>	<b>Engineering Bldg. Welding</b>
<b>EU23-UST-1</b>	<b>RCP Fuel Tank</b>
<b>EU26-AST-1</b>	<b>Hospital School Generator Fuel Tank</b>
<b>EU28-AST-1</b>	<b>Boyd Tower Day Tank</b>
<b>EU29-CHEMO-1</b>	<b>Chemotherapy Medicine Area; IVF</b>
<b>EU30-CHEMO-1</b>	<b>Chemotherapy Medicine Area; IVF</b>
<b>EU31-CHEMO-1</b>	<b>Chemotherapy Medicine Area; IVF</b>
<b>EU32-CHEMO-1</b>	<b>Chemotherapy Medicine Area; IVF</b>
<b>EU33-CHEMO-1</b>	<b>Chemotherapy Medicine Area; IVF</b>
<b>EU34-CHEMO-1</b>	<b>Chemotherapy Medicine Area; IVF</b>
<b>EU35-CHEMO-1</b>	<b>Chemotherapy Medicine Area; IVF</b>
<b>EU36-CHEMO-1</b>	<b>Chemotherapy Medicine Area; IVF</b>
<b>EU37-AST-1</b>	<b>ITS Day Tank</b>
<b>EU38-AST-1</b>	<b>General Hospital Day Tank</b>
<b>EU39-AST-1</b>	<b>Carver Day Tank</b>
<b>EU40-AST-1</b>	<b>Colloton East Day Tank</b>
<b>EU41-AST-1</b>	<b>Colloton West Day Tank</b>
<b>EU43-AST-1</b>	<b>Boyd Tower Tank</b>
<b>EU44-AST-1</b>	<b>Papa John Day Tank</b>
<b>EU45-AST-1</b>	<b>Pomerantz Pavilion Day Tank</b>
<b>EU46-AST-1</b>	<b>Pomerantz Day Tank #2</b>
<b>EU-046-AST-1</b>	<b>IMU Fuel Tank</b>
<b>EU47-AST-1</b>	<b>South Wing Generator Day Tank</b>
<b>EU-076-FUR-1</b>	<b>Boiler, Gas Fired</b>
<b>EU-076-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-077-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-077-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-085-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-085-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-123-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-123-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-124-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-124-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-127-BLR-1</b>	<b>Hot Water Boiler</b>

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**Insignificant Equipment List Continued**

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
<b>EU-127-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-132-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-133-AST-1</b>	<b>Diesel Tank</b>
<b>EU-133-UH-1</b>	<b>Unit Heater</b>
<b>EU-133-UH-2</b>	<b>Unit Heater</b>
<b>EU-133-UH-3</b>	<b>Unit Heater</b>
<b>EU-133-UH-4</b>	<b>Unit Heater</b>
<b>EU-133-UH-5</b>	<b>Unit Heater</b>
<b>EU-133-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-148-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-148-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-149-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-149-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-155-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-155-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-156-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-156-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-164-AST-1</b>	<b>Diesel Tank</b>
<b>EU-164-BLR-1</b>	<b>Boiler</b>
<b>EU-164-UH-1</b>	<b>Unit Heater</b>
<b>EU-164-UH-2</b>	<b>Unit Heater</b>
<b>EU-164-UH-3</b>	<b>Unit Heater</b>
<b>EU-164-UH-4</b>	<b>Unit Heater</b>
<b>EU-164-UH-5</b>	<b>Unit Heater</b>
<b>EU-164-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-167-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-167-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-171-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-171-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-174-BLR-1</b>	<b>Boiler, Gas Fired</b>
<b>EU-174-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-175-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-175-FUR-2</b>	<b>Furnace, Gas Fired</b>
<b>EU-175-FUR-3</b>	<b>Furnace, Gas Fired</b>
<b>EU-175-FUR-4</b>	<b>Furnace, Gas Fired</b>
<b>EU-175-FUR-5</b>	<b>Furnace, Gas Fired</b>
<b>EU-175-FUR-6</b>	<b>Furnace, Gas Fired</b>
<b>EU-175-FUR-7</b>	<b>Furnace, Gas Fired</b>
<b>EU-175-FUR-8</b>	<b>Furnace, Gas Fired</b>
<b>EU-175-FUR-9</b>	<b>Furnace, Gas Fired</b>
<b>EU-175-FUR-10</b>	<b>Furnace, Gas Fired</b>

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**Insignificant Equipment List Continued**

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
<b>EU-175-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-175-WH-2</b>	<b>Water Heater, Gas Fired</b>
<b>EU-175-WH-3</b>	<b>Water Heater, Gas Fired</b>
<b>EU-175-WH-4</b>	<b>Water Heater, Gas Fired</b>
<b>EU-175-WH-5</b>	<b>Water Heater, Gas Fired</b>
<b>EU-175-WH-6</b>	<b>Water Heater, Gas Fired</b>
<b>EU-175-WH-7</b>	<b>Water Heater, Gas Fired</b>
<b>EU-175-WH-8</b>	<b>Water Heater, Gas Fired</b>
<b>EU-175-WH-9</b>	<b>Water Heater, Gas Fired</b>
<b>EU-175-WH-10</b>	<b>Water Heater, Gas Fired</b>
<b>EU-176-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-176-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-185-AST-1</b>	<b>Water Plant Generator Fuel Tank</b>
<b>EU-187-FUR-1</b>	<b>Furnace</b>
<b>EU-187-FUR-2</b>	<b>Furnace</b>
<b>EU-187-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-192-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-192-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-195-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-195-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-199-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-199-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-200-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-200-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-204-UST-1</b>	<b>Bowen Science Building Fuel Tank</b>
<b>EU-216-UH-1</b>	<b>Unit Heater</b>
<b>EU-216-UH-2</b>	<b>Unit Heater</b>
<b>EU-219-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-219-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-262-BLR-1</b>	<b>Boiler</b>
<b>EU-262-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-265-FUR-1</b>	<b>Furnace</b>
<b>EU-265-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-267-BLR-1</b>	<b>Boiler</b>
<b>EU-267-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-300-BLR-1</b>	<b>Boiler</b>
<b>EU-300-BLR-2</b>	<b>Boiler</b>
<b>EU-300-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-304-UH-1</b>	<b>Unit Heater</b>
<b>EU-304-UH-2</b>	<b>Unit Heater</b>
<b>EU-304-UH-3</b>	<b>Unit Heater</b>
<b>EU-307-FUR-1</b>	<b>Furnace, Gas Fired</b>

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**Insignificant Equipment List Continued**

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
<b>EU-307-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-308-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-308-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-326-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-326-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-327-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-327-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-337-AST-1</b>	<b>Gasoline Tank</b>
<b>EU-337-AST-2</b>	<b>Diesel Tank</b>
<b>EU-337-FUR-1</b>	<b>Furnace</b>
<b>EU-337-UH-1</b>	<b>Unit Heater</b>
<b>EU-342-AST-1</b>	<b>Diesel Tank</b>
<b>EU-342-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-342-RH-1</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-2</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-3</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-4</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-5</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-6</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-7</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-8</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-9</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-10</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-11</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-12</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-13</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-14</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-15</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-RH-16</b>	<b>Reverber Ray Radiant Heater</b>
<b>EU-342-UH-1</b>	<b>Unit Heater</b>
<b>EU-347-UH-1</b>	<b>Unit Heater</b>
<b>EU-347-UH-2</b>	<b>Unit Heater</b>
<b>EU-357-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-357-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-358-UH-1</b>	<b>Unit Heater</b>
<b>EU-358-UH-2</b>	<b>Unit Heater</b>
<b>EU-358-UH-3</b>	<b>Unit Heater</b>
<b>EU-358-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-358-WH-2</b>	<b>Water Heater, Gas Fired</b>
<b>EU-369-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-379-BLR-1</b>	<b>Boiler</b>
<b>EU-379-BLR-2</b>	<b>Boiler</b>

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**Insignificant Equipment List Continued**

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
<b>EU-379-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-379-FUR-2</b>	<b>Furnace, Gas Fired</b>
<b>EU-379-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-383-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-383-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-388-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-388-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-391-AST-1</b>	<b>Mayflower Generator Fuel Tank</b>
<b>EU-391-BLR-1</b>	<b>Boiler</b>
<b>EU-391-BLR-2</b>	<b>Boiler</b>
<b>EU-393-BLR-1</b>	<b>Boiler</b>
<b>EU-393-UH-1</b>	<b>Unit Heater</b>
<b>EU-393-UH-2</b>	<b>Unit Heater</b>
<b>EU-394-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-394-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-398-UH-1</b>	<b>Unit Heater</b>
<b>EU-398-UH-2</b>	<b>Unit Heater</b>
<b>EU-398-UH-3</b>	<b>Unit Heater</b>
<b>EU-399-FUR-1</b>	<b>Furnace, Propane Fired</b>
<b>EU-401-UST-1</b>	<b>EMRB Fuel Tank</b>
<b>EU-405-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-405-FUR-2</b>	<b>Furnace, Gas Fired</b>
<b>EU-407-RDN-1</b>	<b>Engineering Research Hood</b>
<b>EU-434-AST-1</b>	<b>Levitt Center Generator Fuel Tank</b>
<b>EU-434-BLR-1</b>	<b>Hot Water Boiler</b>
<b>EU-434-BLR-2</b>	<b>Hot Water Boiler</b>
<b>EU-434-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-437-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-437-WH-1</b>	<b>Water Heater, Gas Fired</b>
<b>EU-445-AST-1</b>	<b>Public Safety Generator Fuel Tank</b>
<b>EU-447-AST-1</b>	<b>MEBRF Generator Fuel Tank</b>
<b>EU-448-AST-1</b>	<b>New Biology Generator Fuel Tank</b>
<b>EU-449-WH-1</b>	<b>Softball Stadium Water Heater</b>
<b>EU-490-BLR-1</b>	<b>Boiler</b>
<b>EU-493-FUR-1</b>	<b>Furnace, Gas Fired</b>
<b>EU-493-UH-1</b>	<b>Unit Heater</b>
<b>EU-493-UH-2</b>	<b>Unit Heater</b>
<b>EU-493-UH-3</b>	<b>Unit Heater</b>
<b>EU-493-UH-4</b>	<b>Unit Heater</b>
<b>EU-494-UH-1</b>	<b>Unit Heater</b>
<b>EU-494-UH-2</b>	<b>Unit Heater</b>
<b>EU-494-UH-3</b>	<b>Unit Heater</b>

## II. Plant-Wide Conditions

Facility Name: 52-01-005

Permit Number: 00-TV-002-M001

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

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### Permit Duration

The term of this permit is: Not to exceed five years.

Commencing on: January 7, 2000

Ending on: January 6, 2005

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

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### Plant-Wide Emission Limits

*Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:*

Opacity (visible emissions): 40% opacity

Authority for Requirement: 567 IAC 23.3(2)"d"

SO<sub>2</sub>: 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter: No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas.

Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot

line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

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### **Reporting and Recordkeeping**

The Main Campus shall not exceed 0.05% sulfur by weight on any diesel burning equipment. The Main Campus shall demonstrate compliance with this limit by keeping the fuel's sulfur content analysis, provided monthly by the wholesaler/ pipeline, onsite for a minimum of five years. If the Main Campus decides to use another wholesaler/pipeline, a sulfur content analysis of that batch must be kept on record. This certification will also be provided to the IDNR's Compliance section in the semi-annual compliance monitoring reports (see General Conditions G5).

Authority for Requirement: 567 IAC 22.108(13)

### III. Emission Point-Specific Conditions

Facility Name: 52-01-005

Permit Number: **00-TV-002-M001**

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#### **Emission Point ID Number: EP-002-1**

##### Associated Equipment

Associated Emission Unit ID Number: EU-002-GEN-1

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#### **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-002-GEN-1

Emission Unit Description: Schaeffer Hall Generator

Raw Material/Fuel: Diesel

Rated Capacity: 0.44 MMBtu/hr

##### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

##### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

Hours of operation: This generator is limited to operating 500 hours per twelve-month period, rolled monthly.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month period, rolled monthly.

Authority for Requirement: 567 IAC 22.108(13)



**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-003-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-003-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-003-GEN-1

Emission Unit Description: Chemistry/Botany Building Generator

Raw Material/Fuel: Diesel

Rated Capacity: 3.08 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

Hours of operation: This generator is limited to operating 500 hours per twelve-month period, rolled monthly.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month period, rolled monthly.

Authority for Requirement: 567 IAC 22.108(13)

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: EP-003-2**

Associated Equipment

Associated Emission Unit ID Numbers: EU-003-GEN-2

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**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-003-GEN-2  
Emission Unit Description: Chemistry/Botany Annex Building Generator  
Raw Material/Fuel: Diesel Fuel  
Rated Capacity: 0.397 MMBtu/hr

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limits: 40 %  
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limits: 0.6 lb/MMBtu  
Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limits: 2.5 lb/MMBtu  
Authority for Requirement: 567 IAC 23.3(3)"b"

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

Hours of operation: This generator is limited to operating 500 hours per twelve-month period, rolled monthly.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month period, rolled monthly.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** Not required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: EP-006-1**  
**(Dual stack with EP-06-2)**

Associated Equipment

Associated Emission Unit ID Number: EU-006-GEN-1

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**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-006-GEN-1

Emission Unit Description: Pharmacy Generator

Raw Material/Fuel: Diesel

Rated Capacity: 5.96 MMBtu/hr

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

Hours of operation: This generator is limited to operating 250 hours per twelve-month period, rolled monthly.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month period, rolled monthly.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: EP-006-2**  
**(Dual stack with EP-006-1)**

Associated Equipment

Associated Emission Unit ID Number: EU-006-GEN-1

---

**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-006-GEN-1

Emission Unit Description: Pharmacy Generator

Raw Material/Fuel: Diesel

Rated Capacity: 5.96 MMBtu/hr

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

Hours of operation: This generator is limited to operating 250 hours per twelve-month period, rolled monthly.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month period, rolled monthly.

Authority for Requirement: 567 IAC 22.108(13)



**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

## Emission Point ID Number: EP-006-3

### Associated Equipment

Associated Emission Unit ID Number: EU-006-HOOD-1

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### **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-006-HOOD-1

Emission Unit Description: Hot Plate Hood – Pharmacy

Raw Material/Fuel: Chemicals

Rated Capacity: 50 lb/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Not applicable at this time.

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

None required at this time.

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: EP-006-4** (EP-006-4 and EP-006-5  
Alternates with EP-006-6 and EP-006-7)

Associated Equipment

Associated Emission Unit ID Number: EU-006-TAB-1  
Emissions Control Equipment ID Number: CE-006-1  
Emissions Control Equipment Description: Baghouse  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-2  
Emissions Control Equipment ID Number: CE-006-2  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-13  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-3  
Emissions Control Equipment ID Number: CE-006-3  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-12  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-4  
Emissions Control Equipment ID Number: CE-006-4  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-11  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-5  
Emissions Control Equipment ID Number: CE-006-5  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-10  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14

Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-6  
Emissions Control Equipment ID Number: CE-006-6  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-9  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-7  
Emissions Control Equipment ID Number: CE-006-7  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-8  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

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### **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-006-TAB-1  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 44C  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 55 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-2  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 32A  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-3  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 32H  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-4  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 32C  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-5  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 4  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-6  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 43B  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-7  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 43E  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limits: 40 %<sup>\*</sup>  
Authority for Requirement: 567 IAC 23.3(2)"d"  
Iowa DNR Construction Permit 99-A-943

<sup>\*</sup> Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (no visible emissions other than during startup, shutdown, or malfunction) will require the owner/operator to promptly investigate the emissions unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance.  
Authority for Requirement: Iowa DNR Construction Permit 99-A-943

Pollutant: PM<sub>10</sub>  
Emission Limits: 0.80 lb/hr  
Authority for Requirement: Iowa DNR Construction Permit 99-A-943

Pollutant: Particulate Matter  
Emission Limits: 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"  
Iowa DNR Construction Permit 99-A-943

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Emission Point 006-4 (EP-006-4) is subject to the following requirements:

1. The facility is required to do routine maintenance on the tablet manufacturing facility according to manufacturer's specifications.
2. The facility is required to submit facility wide modeling for PM<sub>10</sub> and submit the modeling to the Department by March 1, 2000. Facility wide modeling is for the Power Plant, Hospitals, Educational and other facilities that are considered to be part of The University of Iowa. The modeling shall include all sources currently permitted and those sources unpermitted also that have particulate emissions. Those sources unpermitted will not be permitted until the modeling has been submitted. If the modeling is not submitted by March 1, 2000, this permit will be void and the facility will not be in compliance.

Authority for Requirement: Iowa DNR Construction Permit 99-A-943

Reporting and Recordkeeping: All records as required by this permit shall be kept on file for a minimum of two (2) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable limits. Records shall be legible and maintained in an orderly manner.

1. Maintain records of maintenance done to the tablet manufacturing facility on a monthly basis.

2. Record the date the modeling is submitted. Submit the modeling to the Department as specified in Section 8 Part C of this permit.

Authority for Requirement: Iowa DNR Construction Permit 99-A-943

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height (ft, from the ground): 107.5 feet

Discharge Style: Vertical Unobstructed

Stack Opening (inches, diameter): 50 inches

Exhaust Temperature (°F): Ambient

Exhaust Flowrate (scfm): 62000 scfm

Authority for Requirement: Iowa DNR Construction Permit 99-A-943

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: EP-006-5 (EP-006-4 and EP-006-5  
Alternates with EP-006-6 and EP-006-7)**

Associated Equipment

Associated Emission Unit ID Number: EU-006-TAB-1  
Emissions Control Equipment ID Number: CE-006-1  
Emissions Control Equipment Description: Baghouse  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-2  
Emissions Control Equipment ID Number: CE-006-2  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-13  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-3  
Emissions Control Equipment ID Number: CE-006-3  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-12  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-4  
Emissions Control Equipment ID Number: CE-006-4  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-11  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-5  
Emissions Control Equipment ID Number: CE-006-5  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-10  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14

Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-6  
Emissions Control Equipment ID Number: CE-006-6  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-9  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-7  
Emissions Control Equipment ID Number: CE-006-7  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-8  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

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### **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-006-TAB-1  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 44C  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 55 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-2  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 32A  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-3  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 32H  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-4  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 32C  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-5  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 4  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr



Emission Unit vented through this Emission Point: EU-006-TAB-6  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 43B  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-7  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 43E  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limits: 40 %<sup>\*</sup>  
Authority for Requirement: 567 IAC 23.3(2)"d"  
Iowa DNR Construction Permit 99-A-944

<sup>\*</sup> Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (no visible emissions other than during startup, shutdown, or malfunction) will require the owner/operator to promptly investigate the emissions unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance.  
Authority for Requirement: Iowa DNR Construction Permit 99-A-944

Pollutant: PM<sub>10</sub>  
Emission Limits: 0.80 lb/hr  
Authority for Requirement: Iowa DNR Construction Permit 99-A-944

Pollutant: Particulate Matter  
Emission Limits: 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"  
Iowa DNR Construction Permit 99-A-944

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Emission Point 006-5 (EP-006-5) is subject to the following requirements:

1. The facility is required to do routine maintenance on the tablet manufacturing facility according to manufacturer's specifications.
2. The facility is required to submit facility wide modeling for PM<sub>10</sub> and submit the modeling to the Department by March 1, 2000. Facility wide modeling is for the Power Plant, Hospitals, Educational and other facilities that are considered to be part of The University of Iowa. The modeling shall include all sources currently permitted and those sources unpermitted also that have particulate emissions. Those sources unpermitted will not be permitted until the modeling has been submitted. If the modeling is not submitted by March 1, 2000, this permit will be void and the facility will not be in compliance.

Authority for Requirement: Iowa DNR Construction Permit 99-A-944

Reporting and Recordkeeping: All records as required by this permit shall be kept on file for a minimum of two (2) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable limits. Records shall be legible and maintained in an orderly manner.

1. Maintain records of maintenance done to the tablet manufacturing facility on a monthly basis.

2. Record the date the modeling is submitted. Submit the modeling to the Department as specified in Section 8 Part C of this permit.

Authority for Requirement: Iowa DNR Construction Permit 99-A-944

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height (ft, from the ground): 107.5 feet

Discharge Style: Vertical Unobstructed

Stack Opening (inches, diameter): 50 inches

Exhaust Temperature (°F): Ambient

Exhaust Flowrate (scfm): 62000 scfm

Authority for Requirement: Iowa DNR Construction Permit 99-A-944

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number:** EP-006-6 (EP-006-6 and EP-006-7  
Alternate with EP-006-4 and EP-006-5)

Associated Equipment

Associated Emission Unit ID Number: EU-006-TAB-1  
Emissions Control Equipment ID Number: CE-006-1  
Emissions Control Equipment Description: Baghouse  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-2  
Emissions Control Equipment ID Number: CE-006-2  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-13  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-3  
Emissions Control Equipment ID Number: CE-006-3  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-12  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-4  
Emissions Control Equipment ID Number: CE-006-4  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-11  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-5  
Emissions Control Equipment ID Number: CE-006-5  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-10  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14

Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-6  
Emissions Control Equipment ID Number: CE-006-6  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-9  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-7  
Emissions Control Equipment ID Number: CE-006-7  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-8  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

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### **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-006-TAB-1  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 44C  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 55 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-2  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 32A  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-3  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 32H  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-4  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 32C  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-5  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 4  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-6  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 43B  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-7  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 43E  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limits: 40 %<sup>\*</sup>  
Authority for Requirement: 567 IAC 23.3(2)"d"

<sup>\*</sup> Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (no visible emissions other than during startup, shutdown, or malfunction) will require the owner/operator to promptly investigate the emissions unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance.

Authority for Requirement: Iowa DNR Construction Permit 99-A-945

Pollutant: PM<sub>10</sub>  
Emission Limits: 0.80 lb/hr  
Authority for Requirement: Iowa DNR Construction Permit 99-A-945

Pollutant: Particulate Matter  
Emission Limits: 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"  
Iowa DNR Construction Permit 99-A-945

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Emission Point 006-6 (EP-006-6) is subject to the following requirements:

1. The facility is required to do routine maintenance on the tablet manufacturing facility according to manufacturer's specifications.
2. The facility is required to submit facility wide modeling for PM<sub>10</sub> and submit the modeling to the Department by March 1, 2000. Facility wide modeling is for the Power Plant, Hospitals, Educational and other facilities that are considered to be part of The University of Iowa. The modeling shall include all sources currently permitted and those sources unpermitted also that have particulate emissions. Those sources unpermitted will not be permitted until the modeling has been submitted. If the modeling is not submitted by March 1, 2000, this permit will be void and the facility will not be in compliance.

Authority for Requirement: Iowa DNR Construction Permit 99-A-945

Reporting and Recordkeeping: All records as required by this permit shall be kept on file for a minimum of two (2) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable limits. Records shall be legible and maintained in an orderly manner.

1. Maintain records of maintenance done to the tablet manufacturing facility on a monthly basis.

2. Record the date the modeling is submitted. Submit the modeling to the Department as specified in Section 8 Part C of this permit.

Authority for Requirement: Iowa DNR Construction Permit 99-A-945

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height (ft, from the ground): 107.5 feet

Discharge Style: Vertical Unobstructed

Stack Opening (inches, diameter): 50 inches

Exhaust Temperature (°F): Ambient

Exhaust Flowrate (scfm): 62000 scfm

Authority for Requirement: Iowa DNR Construction Permit 99-A-945

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: EP-006-7** (EP-006-6 and EP-006-7  
Alternate with EP-006-4 and EP-006-5)

Associated Equipment

Associated Emission Unit ID Number: EU-006-TAB-1  
Emissions Control Equipment ID Number: CE-006-1  
Emissions Control Equipment Description: Baghouse  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-2  
Emissions Control Equipment ID Number: CE-006-2  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-13  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-3  
Emissions Control Equipment ID Number: CE-006-3  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-12  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-4  
Emissions Control Equipment ID Number: CE-006-4  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-11  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-5  
Emissions Control Equipment ID Number: CE-006-5  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-10  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14

Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-6  
Emissions Control Equipment ID Number: CE-006-6  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-9  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

Associated Emission Unit ID Number: EU-006-TAB-7  
Emissions Control Equipment ID Number: CE-006-7  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-8  
Emissions Control Equipment Description: HEPA filter  
Emissions Control Equipment ID Number: CE-006-14  
Emissions Control Equipment Description: Dry Pre-filter  
Emissions Control Equipment ID Number: CE-006-15  
Emissions Control Equipment Description: HEPA Filter

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### **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-006-TAB-1  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 44C  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 55 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-2  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 32A  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-3  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 32H  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-4  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 32C  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-5  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 4  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr



Emission Unit vented through this Emission Point: EU-006-TAB-6  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 43B  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

Emission Unit vented through this Emission Point: EU-006-TAB-7  
Emission Unit Description: Pharmacy Tablet Manufacturing- Room 43E  
Raw Material/Fuel: Pharmaceutical Materials  
Rated Capacity: 10 kg/hr

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limits: 40 %<sup>\*</sup>  
Authority for Requirement: 567 IAC 23.3(2)"d"

<sup>\*</sup> Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (no visible emissions other than during startup, shutdown, or malfunction) will require the owner/operator to promptly investigate the emissions unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance.

Authority for Requirement: Iowa DNR Construction Permit 99-A-946

Pollutant: PM<sub>10</sub>  
Emission Limits: 0.80 lb/hr  
Authority for Requirement: Iowa DNR Construction Permit 99-A-946

Pollutant: Particulate Matter  
Emission Limits: 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"  
Iowa DNR Construction Permit 99-A-946

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Emission Point 006-7 (EP-006-7) is subject to the following requirements:

1. The facility is required to do routine maintenance on the tablet manufacturing facility according to manufacturer's specifications.
2. The facility is required to submit facility wide modeling for PM<sub>10</sub> and submit the modeling to the Department by March 1, 2000. Facility wide modeling is for the Power Plant, Hospitals, Educational and other facilities that are considered to be part of The University of Iowa. The modeling shall include all sources currently permitted and those sources unpermitted also that have particulate emissions. Those sources unpermitted will not be permitted until the modeling has been submitted. If the modeling is not submitted by March 1, 2000, this permit will be void and the facility will not be in compliance.

Authority for Requirement: Iowa DNR Construction Permit 99-A-946

Reporting and Recordkeeping: All records as required by this permit shall be kept on file for a minimum of two (2) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable limits. Records shall be legible and maintained in an orderly manner.

1. Maintain records of maintenance done to the tablet manufacturing facility on a monthly basis.

2. Record the date the modeling is submitted. Submit the modeling to the Department as specified in Section 8 Part C of this permit.

Authority for Requirement: Iowa DNR Construction Permit 99-A-946

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height (ft, from the ground): 107.5 feet

Discharge Style: Vertical Unobstructed

Stack Opening (inches, diameter): 50 inches

Exhaust Temperature (°F): Ambient

Exhaust Flowrate (scfm): 62000 scfm

Authority for Requirement: Iowa DNR Construction Permit 99-A-946

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-018-2**

### Associated Equipment

Associated Emission Unit ID Number: EU-018-GEN-2

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-018-GEN-2

Emission Unit Description: Biology Generator

Raw Material/Fuel: Diesel

Rated Capacity: 0.92 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

Hours of operation: This generator shall be operated a maximum of 500 hours per twelve-month period, rolled monthly.

Process Throughput: This generator shall be fired by diesel fuel only.

Authority for Requirement: 567 IAC 22.108(3)

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following information:

The number of hours this generator is operated per twelve-month period, rolled monthly.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-021-4**

### Associated Equipment

Associated Emission Unit ID Number: EU-021-KILN-7

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-021-KILN-7

Emission Unit Description: Wood Fired Kiln

Raw Material/Fuel: Wood

Rated Capacity: 84 lb wood/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"a"(3)

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Not applicable at this time.

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

#### **Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.)*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-021-5**

### Associated Equipment

Associated Emission Unit ID Number: EU-021-KILN-8

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-021-KILN-8

Emission Unit Description: Wood Fired Kiln

Raw Material/Fuel: Wood

Rated Capacity: 84 lbs wood/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"a"(3)

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Not applicable at this time.

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"



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## **Emission Point ID Number: EP-021-6**

### Associated Equipment

Associated Emission Unit ID Number: EU-021-KILN-9

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-021-KILN-9

Emission Unit Description: Wood Fired Kiln

Raw Material/Fuel: Wood

Rated Capacity: 84 lb wood/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"a"(3)

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Not applicable at this time.

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

#### **Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: EP-021-15**  
**(Dual Stack with EP-021-16)**

Associated Equipment

Associated Emission Unit ID Number: EU-021-CLAY-1  
Emissions Control Equipment ID Number: CE-021-1  
Emissions Control Equipment Description: Baghouse

---

**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-021-CLAY-1  
Emission Unit Description: West Clay Mixer  
Raw Material/Fuel: Clay and Water  
Rated Capacity: 310 lb/hr dry clay

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter  
Emission Limits: 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity  
Emission Limits: 40 %  
Authority for Requirement: 567 IAC 23.3(2)"d"

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Not applicable at this time.

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

---

**Emission Point ID Number: EP-021-16**  
**(Dual Stack with EP-021-15)**

Associated Equipment

Associated Emission Unit ID Number: EU-021-CLAY-1  
Emissions Control Equipment ID Number: CE-021-1  
Emissions Control Equipment Description: Baghouse

---

**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-021-CLAY-1  
Emission Unit Description: West Clay Mixer  
Raw Material/Fuel: Clay and Water  
Rated Capacity: 310 lb/hr dry clay

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter  
Emission Limits: 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity  
Emission Limits: 40 %  
Authority for Requirement: 567 IAC 23.3(2)"d"

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Not applicable at this time.

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: EP-021-17**  
**(Dual Stack with EP-021-18)**

Associated Equipment

Associated Emission Unit ID Number: EU-021-CLAY-2  
Emissions Control Equipment ID Number: CE-021-2  
Emissions Control Equipment Description: Baghouse

---

**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-021-CLAY-2  
Emission Unit Description: East Clay Mixer  
Raw Material/Fuel: Clay and Water  
Rated Capacity: 200 lb/hr dry clay

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter  
Emission Limits: 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity  
Emission Limits: 40 %  
Authority for Requirement: 567 IAC 23.3(2)"d"

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Not applicable at this time.

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"



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**Emission Point ID Number: EP-021-18**  
**(Dual Stack with EP-021-17)**

Associated Equipment

Associated Emission Unit ID Number: EU-021-CLAY-2  
Emissions Control Equipment ID Number: CE-021-2  
Emissions Control Equipment Description: Baghouse

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**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-021-CLAY-2  
Emission Unit Description: East Clay Mixer  
Raw Material/Fuel: Clay and Water  
Rated Capacity: 200 lb/hr dry clay

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter  
Emission Limits: 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity  
Emission Limits: 40 %  
Authority for Requirement: 567 IAC 23.3(2)"d"

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Not applicable at this time.

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-021-30**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-021-SPRAY-1

Emissions Control Equipment ID Number: CE-021-3

Emissions Control Equipment Description: Fiberglass Filter

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### **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-021-SPRAY-1

Emission Unit Description: Spray Booth

Raw Material/Fuel: glaze solution, clay product

Rated Capacity: 0.875 gallons glaze/hr

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: 567 IAC 23.4(13)

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

None applicable at this time.

#### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception listed below, this emission point will come into compliance by meeting the following conditions:**

#### **Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** Not required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## Emission Point ID Number: EP-022-1

### Associated Equipment

Associated Emission Unit ID Number: EU-022-GEN-1

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### **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-022-GEN-1

Emission Unit Description: Engineering Building Generator

Raw Material/Fuel: Diesel

Rated Capacity: 5.38 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Particulate Matter  $\leq 10\mu\text{m}$  (PM<sub>10</sub>)

Emission Limits: 0.753 lb/hr

Authority for Requirement: NAAQS

Iowa DNR Construction Permit 99-A-942

Pollutant: Opacity

Emission Limits: 40 %

<sup>(1)</sup> Per DNR Air Quality Policy 3-b-08, **Opacity Limits**, an exceedence of the indicator opacity of (20%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. The permit holder shall also file an "indicator opacity exceedence report" with the DNR field office and keep records as required in the policy. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 99-A-942

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 99-A-942

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

Emission Point 022-1 (EP-022-1) is subject to the following requirements:

- (1) The facility is limited to using diesel oil #2 as the only fuel source for the emergency generator.
- (2) The facility is limited to having a maximum sulfur content in the diesel oil #2 of

0.05% as requested.

- (3) The emergency generator is limited to operating a maximum of 500 hours per rolling 12-month period.

**Reporting and Recordkeeping:** All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

- (1) Maintain records of the amount of sulfur content in the diesel oil #2.  
(2) Record the number of hours of operation each time the generator is used and provide a rolling 12-month total for the hours of operation of the generator.

Authority for Requirement: Iowa DNR Construction Permit 99-A-942

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height (ft from the ground): 75.42

Stack Diameter (inches): 8

Stack Exhaust Flowrate (acfm): 1500

Stack Temperature (°F): 1119

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 99-A-942

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

#### **Stack Testing:**

Pollutant: PM<sub>10</sub>

Stack Test to be completed by- The owner shall verify compliance with the emission limitations within **60** days after achieving maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment. The tests shall be conducted with the equipment operating in a manner representative of maximum rated capacity. Failure to test at the rated capacity may be cause for the Department to limit the emission unit to the operating level at which the compliance tests had been conducted.

Test Method- 40 CFR 51, Appendix M, 201A with 202

Authority for Requirement Iowa DNR Construction Permit 99-A-942

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-033-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-033-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-033-GEN-1

Emission Unit Description: Westlawn Generator

Raw Material/Fuel: Diesel

Rated Capacity: 0.97 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation, including startups for testing and maintenance, per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"



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## **Emission Point ID Number: EP-034-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-034-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-034-GEN-1

Emission Unit Description: MEB Generator

Raw Material/Fuel: Diesel

Rated Capacity: 0.81 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-040-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-040-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-040-GEN-1

Emission Unit Description: Fieldhouse Generator

Raw Material/Fuel: Diesel

Rated Capacity: 0.37 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-046-2**

### Associated Equipment

Associated Emission Unit ID Number: EU-046-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-046-GEN-1

Emission Unit Description: IMU Generator

Raw Material/Fuel: Diesel

Rated Capacity: 0.43 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-051-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-051-WOOD-1

Emissions Control Equipment ID Number: CE-051-1

Emissions Control Equipment Description: Settling Chamber

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-051-WOOD-1

Emission Unit Description: FSG Carpenter Shop

Raw Material/Fuel: Sawdust

Rated Capacity: 9.35 lb/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Not applicable at this time.

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"



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## **Emission Point ID Number: EP-112-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-112-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-112-GEN-1

Emission Unit Description: Hillcrest Generator

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.50MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

The sulfur content of natural gas combusted by this source is not to exceed twenty-five (25) grains per 100 standard cubic feet of input natural gas.

Authority for Requirement: 567 IAC 22.108(13)

This unit shall burn natural gas only.

Authority for Requirement: 567 IAC 22.108(13)

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-185-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-185-LIME-1

Emissions Control Equipment ID Number: CE-185-1

Emissions Control Equipment Description: Baghouse

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-185-LIME-1

Emission Unit Description: Water Plant Lime Conveying System

Raw Material/Fuel: Lime

Rated Capacity: 51,600 CF Lime/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Not applicable at this time.

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-185-2**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-185-GEN-1

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### **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-185-GEN-1

Emission Unit Description: Water Plant Generator

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 1250 KW

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.75 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 99-A-448

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Indicator Opacity: 20% <sup>(1)</sup>

<sup>(1)</sup> If visible emissions over 20% are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 99-A-448

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 99-A-448

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: 1. The unit shall not operate more than 500 hours per year.

2. The unit shall not operate more than 23 hours per day.

Process throughput: 3. The unit shall be fired on diesel fuel only.

4. The sulfur content of the fuel used shall not exceed 0.05% by weight.

Authority for Requirement: Iowa DNR Construction Permit 99-A-448

Reporting & Record keeping: Records shall be maintained on site for five (5) years and be available for inspection upon request by representatives of the DNR. These records shall show the following:

1. The date, type of fuel used, sulfur content of the fuel, time of startup, time of shutdown, and total hours of operation for that day.

2. During the first twelve-(12) months of operation, determine the cumulative

number of hours the unit operated each month of operation.

3. After the first twelve-(12) months of operation, determine the annual number of hours the unit operated on a rolling 12-month basis for each month of operation.

Authority for Requirement: Iowa DNR Construction Permit 99-A-448

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Emission Point Characteristics**

Stack Height (feet): 60

Stack Diameter (feet): 0.83

Stack Exhaust Flow Rate (acfm): 9620

Stack Temperature (°F): 990

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 99-A-448

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-204-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-204-INC-1, EU-204-INC-1A

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-204-INC-1

Emission Unit Description: Crematorium

Raw Material/Fuel: Natural Gas

Rated Capacity: 1.4MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

The sulfur content of natural gas combusted by this source is not to exceed twenty-five (25) grains per 100 standard cubic feet of input gas.

Authority for Requirement: 567 IAC 22.108(13)

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

1. *For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

---

**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-204-INC-1A

Emission Unit Description: Crematorium

Raw Material/Fuel: Pathological Waste

Rated Capacity: 0.125 tons/hr

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

None required at this time.



**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-204-2**

### Associated Equipment

Associated Emission Unit ID Number: EU-204-GEN-1

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### **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-204-GEN-1

Emission Unit Description: Bowen Science Generator

Raw Material/Fuel: Diesel

Rated Capacity: 3.59 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 96-A-1235-S2

Pollutant: PM<sub>10</sub>

Emission Limits: 0.88 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 96-A-1235-S2

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Indicator Opacity: 25%<sup>(1)</sup>

<sup>(1)</sup> If visible emissions greater than 25% are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1235-S2

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 96-A-1235-S2

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The operation of this generator shall not exceed 300 hours per 12-month rolling period.

Process Throughput: The sulfur content of any diesel fuel used in this generator shall not exceed 0.05 % by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. The number of hours this generator is operated, including periods of testing and maintenance, in hours. Calculate and record monthly and 12-month rolling totals.
2. The sulfur content of any fuel used in this generator, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1235-S2

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (feet): 35

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (acfm): 3425

Stack Temperature (°F): 810

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-1235-S2

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-267-3**

### Associated Equipment

Associated Emission Unit ID Number: EU-267-UST-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-267-UST-1

Emission Unit Description: Motor Pool Fuel Tank

Raw Material/Fuel: Diesel

Rated Capacity: 12,000 gallons

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Not applicable at this time.

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Fuel is dispensed directly into motor vehicle tanks.

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

### **Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

### **Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for the unit venting through this point is issued*

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: EP-267-4****Associated Equipment**

Associated Emission Unit ID Number: EU-267-UST-2

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**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-267-UST-2

Emission Unit Description: Motor Pool Fuel Tank

Raw Material/Fuel: E-85 (85% ethanol 15% gasoline)

Rated Capacity: 12,000 gallons

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Not applicable at this time.

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Fuel is dispensed directly into motor vehicle tanks.

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for the unit venting through this point is issued*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: EP-267-5****Associated Equipment**

Associated Emission Unit ID Number: EU-267-UST-3

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**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-267-UST-3

Emission Unit Description: Motor Pool Fuel Tank

Raw Material/Fuel: Gasoline

Rated Capacity: 12,000 gallons

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Not applicable at this time.

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Fuel is dispensed directly into motor vehicle tanks.

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for the unit venting through this point is issued*



**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-273-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-273-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-273-GEN-1

Emission Unit Description: Rienow Generator

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.50 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

The sulfur content of natural gas combusted by this source is not to exceed twenty-five (25) grains per 100 standard cubic feet of input natural gas.

Authority for Requirement: 567 IAC 22.108(13)

This unit shall burn natural gas only.

Authority for Requirement: 567 IAC 22.108(13)

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-274-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-274-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-274-GEN-1

Emission Unit Description: Slater Generator

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.50 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

The sulfur content of natural gas combusted by this source is not to exceed twenty-five (25) grains per 100 standard cubic feet of input natural gas.

Authority for Requirement: 567 IAC 22.108(13)

This unit shall burn natural gas only.

Authority for Requirement: 567 IAC 22.108(13)

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-276-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-276-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-276-GEN-1

Emission Unit Description: Daum Generator

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.50 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

The sulfur content of natural gas combusted by this source is not to exceed twenty-five (25) grains per 100 standard cubic feet of input natural gas.

Authority for Requirement: 567 IAC 22.108(13)

This unit shall burn natural gas only.

Authority for Requirement: 567 IAC 22.108(13)

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-277-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-277-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-277-GEN-1

Emission Unit Description: Stanley Generator

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.50 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

The sulfur content of natural gas combusted by this source is not to exceed twenty-five (25) grains per 100 standard cubic feet of input natural gas.

Authority for Requirement: 567 IAC 22.108(13)

This unit shall burn natural gas only.

Authority for Requirement: 567 IAC 22.108(13)

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**



**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: EP-278-1**

Associated Equipment

Associated Emission Unit ID Number: EU-278-GEN-1

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**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-278-GEN-1

Emission Unit Description: DSB Generator

Raw Material/Fuel: Diesel

Rated Capacity: 2.85 MMBtu/hr

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 96-A-1236-S2

Pollutant: PM<sub>10</sub>

Emission Limits: 0.70 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 96-A-1236-S2

Pollutant: Opacity

Emission Limits: 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Indicator Opacity: 25%<sup>(1)</sup>

<sup>(1)</sup> If visible emissions greater than 25% are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1236-S2

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 96-A-1236-S2

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The operation of this generator shall not exceed 300 hours per 12-month rolling period.

Process Throughput: The sulfur content of any diesel fuel used in this generator shall not exceed 0.05 % by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. The number of hours this generator is operated, in hours. Calculate and record monthly and 12-month totals rolled monthly.

2. The sulfur content of any fuel used in this generator, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1236-S2

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (feet): 65.5

Stack Diameter (inches): 10

Stack Exhaust Flow Rate (acfm): 2715

Stack Temperature (°F): 895

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-1236-S2

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-304-4**

### Associated Equipment

Associated Emission Unit ID Number: EU-304-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-304-GEN-1

Emission Unit Description: Jacobson Building Generator

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.13 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

The sulfur content of natural gas combusted by this source is not to exceed twenty-five (25) grains per 100 standard cubic feet of input natural gas.

Authority for Requirement: 567 IAC 22.108(13)

This unit shall burn natural gas only.

Authority for Requirement: 567 IAC 22.108(13)

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-316-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-316-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-316-GEN-1

Emission Unit Description: Lindquist Generator

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.50 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

The sulfur content of natural gas combusted by this source is not to exceed twenty-five (25) grains per 100 standard cubic feet of input natural gas.

Authority for Requirement: 567 IAC 22.108(13)

This unit shall burn natural gas only.

Authority for Requirement: 567 IAC 22.108(13)

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period. This unit is limited to burning natural gas only.

Authority for Requirement: 567 IAC 22.108(13)

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-331-3**

### Associated Equipment

Associated Emission Unit ID Number: EU-331-PNT-1, EU-331-PNT-1A

Emissions Control Equipment ID Number: CE-331-1

Emissions Control Equipment Description: Cartridge Filter

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-331-PNT-1

Emission Unit Description: FSG Paint Booth

Raw Material/Fuel: Paint and Thinner

Rated Capacity: 3.00 gal/hr

Emission Unit vented through this Emission Point: EU-331-PNT-1A

Emission Unit Description: FSG Paint Booth- Solvent Usage

Raw Material/Fuel: Paint and solvent

Rated Capacity: 1.00 gal/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Not applicable at this time.

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**



**Exception**

1. *For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-374-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-374-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-374-GEN-1

Emission Unit Description: CHA Generator

Raw Material/Fuel: Propane

Rated Capacity: 0.26 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

None required at this time.

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: EP-377-1****Associated Equipment**

Associated Emission Unit ID Number: EU-377-GEN-1

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**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-377-GEN-1

Emission Unit Description: Boyd Law Generator

Raw Material/Fuel: Diesel

Rated Capacity: 2.74 MMBtu/hr

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping.

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

---

## **Emission Point ID Number: EP-391-2**

### Associated Equipment

Associated Emission Unit ID Number: EU-391-GEN-1

---

## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-391-GEN-1

Emission Unit Description: Mayflower Generator

Raw Material/Fuel: Diesel

Rated Capacity: 0.50 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping.

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-398-3**

### Associated Equipment

Associated Emission Unit ID Number: EU-398-GEN-1

---

## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-398-GEN-1

Emission Unit Description: IPF IC Engine Exhaust

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.04 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

The sulfur content of natural gas combusted by this source is not to exceed twenty-five (25) grains per 100 standard cubic feet of input natural gas.

Authority for Requirement: 567 IAC 22.108(13)

This unit shall burn natural gas only.

Authority for Requirement: 567 IAC 22.108(13)

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**



**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-398-4**

### Associated Equipment

Associated Emission Unit ID Number: EU-398-GEN-2

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-398-GEN-2

Emission Unit Description: IPF IC Engine Exhaust

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.04 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

The sulfur content of natural gas combusted by this source is not to exceed twenty-five (25) grains per 100 standard cubic feet of input natural gas.

Authority for Requirement: 567 IAC 22.108(13)

This unit shall burn natural gas only.

Authority for Requirement: 567 IAC 22.108(13)

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

---

## **Emission Point ID Number: EP-401-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-401-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-401-GEN-1

Emission Unit Description: EMRB Generator

Raw Material/Fuel: Diesel

Rated Capacity: 1.59 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping.

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

---

**Emission Point ID Number: EP-418-1**  
**(Dual stack with EP-418-2)**

Associated Equipment

Associated Emission Unit ID Number: EU-418-GEN-1

---

**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-418-GEN-1

Emission Unit Description: IATL Generator

Raw Material/Fuel: Diesel

Rated Capacity: 7.60 MMBtu/hr

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 96-A-1237-S2

Pollutant: PM<sub>10</sub>

Emission Limits: 1.86 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 96-A-1237-S2

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Indicator Opacity: 25%<sup>(1)</sup>

<sup>(1)</sup> If visible emissions greater than 25% are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1237-S2

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 96-A-1237-S2

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The operation of this generator shall not exceed 300 hours per 12-month rolling period.

Process Throughput: The sulfur content of any diesel fuel used in this generator shall not exceed 0.05 % by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. The number of hours this generator is operated, including startup for testing and maintenance, in hours. Calculate and record monthly and 12-month totals rolled monthly.

2. The sulfur content of any fuel used in this generator, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1237-S2

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (feet): 14.5 (from ground)

Stack Diameter (inches): 6

Stack Exhaust Flow Rate (acfm): 7,510 (total for both stacks)

Stack Temperature (°F): 755

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-1237-S2

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

---

**Emission Point ID Number: EP-418-2**  
**(Dual stack with EP-418-1)**

Associated Equipment

Associated Emission Unit ID Number: EU-418-GEN-1

---

**Applicable Requirements**

Emission Unit vented through this Emission Point: EU-418-GEN-1

Emission Unit Description: IATL Generator

Raw Material/Fuel: Diesel

Rated Capacity: 7.60 MMBtu/hr

**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 96-A-1237-S2

Pollutant: PM<sub>10</sub>

Emission Limits: 1.86 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 96-A-1237-S2

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Indicator Opacity: 25%<sup>(1)</sup>

<sup>(1)</sup> If visible emissions greater than 25% are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1237-S2

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 96-A-1237-S2

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The operation of this generator shall not exceed 300 hours per 12-month rolling period.

Process Throughput: The sulfur content of any diesel fuel used in this generator shall not exceed 0.05 % by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:



1. The number of hours this generator is operated, including startup for testing and maintenance, in hours. Calculate and record monthly and 12-month totals rolled monthly.

2. The sulfur content of any fuel used in this generator, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1237-S2

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (feet): 14.5 (from ground)

Stack Diameter (inches): 6

Stack Exhaust Flow Rate (acfm): 7,510 (total from both stacks)

Stack Temperature (°F): 755

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-1237-S2

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-430-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-430-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-430-GEN-1

Emission Unit Description: PBAB Generator

Raw Material/Fuel: Diesel

Rated Capacity: 2.85 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping.

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.180(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for the unit venting through this point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-434-2**

### Associated Equipment

Associated Emission Unit ID Number: EU-434-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-434-GEN-1

Emission Unit Description: Levitt Center Generator

Raw Material/Fuel: Diesel

Rated Capacity: 2.47 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping.

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-445-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-445-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-445-GEN-1

Emission Unit Description: Public Safety Generator

Raw Material/Fuel: Diesel

Rated Capacity: 1.45 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation, including startups for testing and maintenance, per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-447-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-447-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-447-GEN-1

Emission Unit Description: MEBRF Generator

Raw Material/Fuel: Diesel

Rated Capacity: 12.1 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period.

Process Throughput: This generator shall be fired by diesel fuel only.

The maximum sulfur content of any fuel used in this generator shall not exceed 0.05% by weight.

Authority for Requirement: 567 IAC 22.108(3)

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation, including startups for testing and maintenance, per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.108(13)



**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception(s) listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

**Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for the unit venting through this point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-448-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-448-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-448-GEN-1

Emission Unit Description: New Biology Generator

Raw Material/Fuel: Diesel

Rated Capacity: 4.82 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 98-A-941-S2

Pollutant: Opacity

Emission Limits: 40 %

Indicator Opacity: 20% <sup>(1)</sup>

(1) If observed emissions are over 20% other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 98-A-941-S2

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 98-A-941-S2

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: This generator shall be operated a maximum of 500 hours per twelve-month period.

Process Throughput: This generator shall be fired by diesel fuel only.

The maximum sulfur content of any fuel used in this generator shall not exceed 0.05% by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request.

1. The sulfur content of any fuel used in this generator, in weight percent.

2. The number of hours this generator is operated. Calculate and record monthly and 12-month totals rolled monthly.

Authority for Requirement: Iowa DNR Construction Permit 98-A-941-S2

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (feet): 14

Stack Diameter (inches): 5

Stack Exhaust Flow Rate (acfm): 3945

Stack Temperature (°F): 939

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 98-A-941-S2

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-450-1**

### Associated Equipment

Associated Emission Unit ID Number: EU-450-GEN-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU-450-GEN-1

Emission Unit Description: USB Generator

Raw Material/Fuel: Natural gas

Rated Capacity: 0.583 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

The sulfur content of natural gas combusted by this source is not to exceed twenty-five (25) grains per 100 standard cubic feet of input natural gas.

Authority for Requirement: 567 IAC 22.108(13)

This unit shall burn natural gas only.

Authority for Requirement: 567 IAC 22.108(13)

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation, including startups for testing and maintenance, per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-1**

### Associated Equipment

Associated Emission Unit ID Number: EU1-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU1-1

Emission Unit Description: Boyd Tower Generator

Raw Material/Fuel: Diesel

Rated Capacity: 9.86 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 96-A-1238-S2

Pollutant: PM<sub>10</sub>

Emission Limits: 2.41 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 96-A-1238-S2

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Indicator Opacity: 25%<sup>(1)</sup>

<sup>(1)</sup> If visible emissions greater than 25% are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1238-S2

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 96-A-1238-S2

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The operation of this generator shall not exceed 300 hours per 12-month rolling period.

Process Throughput: The sulfur content of any diesel fuel used in this generator shall not exceed 0.05 % by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. The number of hours this generator is operated, including startup for testing and maintenance, in hours. Calculate and record monthly and 12-month totals rolled monthly.
2. The sulfur content of any fuel used in this generator, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1238-S2

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (feet): 99.4

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (acfm): 7168

Stack Temperature (°F): 775

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-1238-S2

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-2**

### Associated Equipment

Associated Emission Unit ID Number: EU2-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU2-1

Emission Unit Description: General Hospital Generator

Raw Material/Fuel: Diesel

Rated Capacity: 9.86 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 96-A-1239-S2

Pollutant: PM<sub>10</sub>

Emission Limits: 2.41 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 96-A-1239-S2

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Indicator Opacity: 25%<sup>(1)</sup>

<sup>(1)</sup> If visible emissions greater than 25% are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1239-S2

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 96-A-1239-S2

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The operation of this generator shall not exceed 300 hours per 12-month rolling period.

Process Throughput: The sulfur content of any diesel fuel used in this generator shall not exceed 0.05 % by weight.



Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. The number of hours this generator is operated, including startup for testing and maintenance, in hours. Calculate and record monthly and 12-month totals rolled monthly.
2. The sulfur content of any fuel used in this generator, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1239-S2

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (feet): 58.7

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (acfm): 9180

Stack Temperature (°F): 735

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-1239-S2

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-3**

### Associated Equipment

Associated Emission Unit ID Number: EU3-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU3-1

Emission Unit Description: ITS Generator

Raw Material/Fuel: Diesel

Rated Capacity: 2.06 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping.

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the number of hours of operation per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-4**

### Associated Equipment

Associated Emission Unit ID Number: EU4-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU4-1  
Emission Unit Description: Pomerantz Family Pavilion Generator  
Raw Material/Fuel: Diesel  
Rated Capacity: 9.32 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter  
Emission Limits: 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"  
Iowa DNR Construction Permit 96-A-1240-S3

Pollutant: PM<sub>10</sub>  
Emission Limits: 2.26 lb/hr  
Authority for Requirement: Iowa DNR Construction Permit 96-A-1240-S3

Pollutant: Opacity  
Emission Limits: 40 %  
Authority for Requirement: 567 IAC 23.3(2)"d"  
Indicator Opacity: 25%<sup>(1)</sup>

<sup>(1)</sup> If visible emissions greater than 25% are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1240-S3

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limits: 2.5 lb/MMBtu  
Authority for Requirement: 567 IAC 23.3(3)"b"  
Iowa DNR Construction Permit 96-A-1240-S3

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The operation of this generator shall not exceed 300 hours per 12-month rolling period.

Process Throughput: The sulfur content of any diesel fuel used in this generator shall not exceed 0.05 % by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. The number of hours this generator is operated, including startup for testing and maintenance, in hours. Calculate and record monthly and 12-month totals rolled monthly.

2. The sulfur content of any fuel used in this generator, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1240-S3

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Additional Requirements**

*This emission point shall conform to the conditions listed below.*

Stack Height (feet): 82 (from ground)

Stack Diameter (inches): 15

Stack Exhaust Flow Rate (acfm): 7897

Stack Temperature (°F): 950

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-1240-S3

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-5**

### Associated Equipment

Associated Emission Unit ID Number: EU5-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU5-1

Emission Unit Description: JCP West Generator

Raw Material/Fuel: Diesel

Rated Capacity: 12.3 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 96-A-1241-S2

Pollutant: PM<sub>10</sub>

Emission Limits: 3.01 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 96-A-1241-S2

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Indicator Opacity: 25%<sup>(1)</sup>

<sup>(1)</sup> If visible emissions greater than 25% are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1241-S2

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 96-A-1241-S2

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The operation of this generator shall not exceed 300 hours per 12-month rolling period.

Process Throughput: The sulfur content of any diesel fuel used in this generator shall not exceed 0.05 % by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. The number of hours this generator is operated, including startup for testing and maintenance, in hours. Calculate and record monthly and 12-month totals rolled monthly.
  2. The sulfur content of any fuel used in this generator, in weight percent.
- Authority for Requirement: Iowa DNR Construction Permit 96-A-1241-S2

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (feet): 107

Stack Diameter (inches): 24

Stack Exhaust Flow Rate (acfm): 9754

Stack Temperature (°F): 959

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-1241-S2

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-6**

### Associated Equipment

Associated Emission Unit ID Number: EU6-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU6-1

Emission Unit Description: JCP East Generator

Raw Material/Fuel: Diesel

Rated Capacity: 12.3 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 96-A-1242-S2

Pollutant: PM<sub>10</sub>

Emission Limits: 3.01 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 96-A-1242-S2

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Indicator Opacity: 25%<sup>(1)</sup>

<sup>(1)</sup> If visible emissions greater than 25% are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1242-S2

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 96-A-1242-S2

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The operation of this generator shall not exceed 300 hours per 12-month rolling period.

Process Throughput: The sulfur content of any diesel fuel used in this generator shall not exceed 0.05 % by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:



1. The number of hours this generator is operated, including startup for testing and maintenance, in hours. Calculate and record monthly and 12-month totals rolled monthly.
  2. The sulfur content of any fuel used in this generator, in weight percent.
- Authority for Requirement: Iowa DNR Construction Permit 96-A-1242-S2

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (feet): 107

Stack Diameter (inches): 15

Stack Exhaust Flow Rate (acfm): 8814

Stack Temperature (°F): 660

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-1242-S2

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-7**

### Associated Equipment

Associated Emission Unit ID Number: EU7-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU7-1  
Emission Unit Description: John Pappajohn Pavilion Generator  
Raw Material/Fuel: Diesel  
Rated Capacity: 12.3 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter  
Emission Limits: 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"  
Iowa DNR Construction Permit 96-A-1243-S2

Pollutant: PM<sub>10</sub>  
Emission Limits: 3.01 lb/hr  
Authority for Requirement: Iowa DNR Construction Permit 96-A-1243-S2

Pollutant: Opacity  
Emission Limits: 40 %  
Authority for Requirement: 567 IAC 23.3(2)"d"  
Indicator Opacity: 25%<sup>(1)</sup>

<sup>(1)</sup> If visible emissions greater than 25% are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1243-S2

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limits: 2.5 lb/MMBtu  
Authority for Requirement: 567 IAC 23.3(3)"b"  
Iowa DNR Construction Permit 96-A-1243-S2

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The operation of this generator shall not exceed 300 hours per 12-month rolling period.

Process Throughput: The sulfur content of any diesel fuel used in this generator shall not exceed 0.05 % by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. The number of hours this generator is operated, including startup for testing and maintenance, in hours. Calculate and record monthly and 12-month totals rolled monthly.
  2. The sulfur content of any fuel used in this generator, in weight percent.
- Authority for Requirement: Iowa DNR Construction Permit 96-A-1243-S2

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (feet): 107

Stack Diameter (inches): 15

Stack Exhaust Flow Rate (acfm): 11520

Stack Temperature (°F): 805

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-1243-S2

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-8**

### Associated Equipment

Associated Emission Unit ID Numbers: EU8-1

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### **Applicable Requirements**

Emission Unit vented through this Emission Point: EU8-1

Emission Unit Description: South Wing Generator

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 400 KW

### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.24 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 99-A-449

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Indicator Opacity: 20% <sup>(1)</sup>

<sup>(1)</sup> If visible emissions over 20% are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 99-A-449

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 99-A-449

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The unit shall no operate more than 500 hours per year.

Process throughput: 1. The unit shall be fired on diesel fuel only.

2. The sulfur content of the fuel used shall not exceed 0.05% by weight.

3. The unit shall not operate more than 23 hours per day.

Reporting & Record keeping: Records shall be maintained on site for five (5) years and be available for inspection upon request by representatives of the IDNR. These records shall show the following:

1. The date, type of fuel used, sulfur content of the fuel, time of startup, time of shutdown, and total hours of operation for that day.

2. During the first twelve-months of operation, determine the cumulative number of hours the unit operated each month of operation.
3. After the first twelve-months of operation, determine the annual number of hours the unit operated on a rolling 12-month basis for each month of operation.

Authority for Requirement: Iowa DNR Construction Permit 99-A-449

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Emission Point Characteristics**

Stack Height (feet): 93.2

Stack Diameter (inches): 10

Stack Exhaust Flow Rate (acfm): 3401

Stack Temperature (°F): 1060

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 99-A-449

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-14**

### Associated Equipment

Associated Emission Unit ID Number: EU14 -1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU14-1

Emission Unit Description: JCP Sterilizing Services

Raw Material/Fuel: Ethylene Oxide

Rated Capacity: 15.9 lb/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Not applicable at this time.

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

None applicable at this time.

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

### **Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

### **Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-15**

### Associated Equipment

Associated Emission Unit ID Number: EU15-1

Emissions Control Equipment ID Number: CE-15-1

Emissions Control Equipment Description: Cartridge Filter

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU15-1

Emission Unit Description: Hospital Paint Booth

Raw Material/Fuel: Paint and Thinner

Rated Capacity: 5.625 gal/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter (TSP)

Emission Limit(s): 0.01 gr./dscf

Authority for Requirement: 567 IAC 23.4(13)

Iowa DNR Construction Permit 94-A-250-S2

Pollutant: Opacity

Emission Limit(s): If visible emissions are observed other than start-up, malfunction, or shutdown a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: 567 IAC 23.3(2)"e"

Iowa DNR Construction Permit 94-A-250-S2

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput: The total material usage for this source shall not exceed the following limits:

- \* For material with VOC content < 6.60 lb VOC/gallon of material, the facility is limited to a maximum of 1366 gallons per 12-month rolling period. Max. No. Gal/12 month period rolled monthly.
- \* For material with VOC content  $\geq 6.60$  and < 7.80 lb VOC/gallon of material, the facility is limited to a maximum of 128 gallons per 12-month rolling period.
- \* The maximum VOC content of the material is 7.80 lb VOC/gallon of material.
- \* Only one spray gun (Graco 700N) shall be operated in the booth.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. Records showing material type (VOC and solids content) and amount used at the booth.



2. The rolling twelve month material usage record shall be updated on a monthly basis for each VOC content category listed above  
Authority for Requirement: Iowa DNR Construction Permit 94-A-250-S2

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Additional Requirements**

*This emission point shall conform to the conditions listed below.*

Stack Height (feet): 96.3

Stack Diameter (inches): 28

Stack Exhaust Flow Rate (acfm): 9000

Stack Temperature (°F): Ambient

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-250-S2

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-17**

### Associated Equipment

Associated Emission Unit ID Number: EU17-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU17-1

Emission Unit Description: Pomerantz Family Pavilion Eye Clinic Generator

Raw Material/Fuel: Diesel

Rated Capacity: 4.27 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 96-A-1244-S3

Pollutant: PM<sub>10</sub>

Emission Limits: 0.79 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 96-A-1244-S3

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 96-A-1244-S3

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Indicator Opacity: 25%<sup>(1)</sup>

<sup>(1)</sup> If visible emissions exceed the indicator opacity other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1244-S3

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The operation of this generator shall not exceed 250 hours per 12-month rolling period.

Process Throughput: The sulfur content of any diesel fuel used in this generator shall not exceed 0.05% by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. The number of hours this generator is operated, including startup for testing and maintenance, in hours. Calculate and record monthly and 12-month totals rolled monthly.
2. The sulfur content of any fuel used in this generator, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1244-S3

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

### **Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (feet): 82

Stack Diameter (inches): 8

Stack Exhaust Flow Rate (acfm): 10337

Stack Temperature (°F): 1018

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-1244-S3

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## Emission Point ID Number: EP-18

### Associated Equipment

Associated Emission Unit ID Number: EU18-1

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## Applicable Requirements

Emission Unit vented through this Emission Point: EU18-1  
Emission Unit Description: Pomerantz Family Pavilion Boiler  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 33.5 MMBtu/hr

### Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter  
Emission Limits: 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"  
Iowa DNR Construction Permit 96-A-1245-S3

Pollutant: PM<sub>10</sub>  
Emission Limits: 0.46 lb/hr  
Authority for Requirement: Iowa DNR Construction Permit 96-A-1245-S3

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limits: 500 ppmv  
Authority for Requirement: 567 IAC 23.3(3)"e"  
Iowa DNR Construction Permit 96-A-1245-S3

Pollutant: Opacity  
Emission Limits: 40 %  
Authority for Requirement: 567 IAC 23.3(2)"d"  
Indicator Opacity: 25%<sup>(1)</sup>  
<sup>(1)</sup> If visible emissions exceed the indicator opacity other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.  
Authority for Requirement: Iowa DNR Construction Permit 96-A-1245-S3

### Operational Limits & Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: The boiler is limited to operating 250 hours per twelve-month rolling period.

Process Throughput: The boiler is limited to firing with natural gas only.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. The number of hours of operation per twelve-month rolling period.

2. The type of fuel used as well as the sulfur content.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1245-S3

Process throughput: The sulfur content of natural gas combusted by this source is not to exceed twenty-five (25) grains per 100 standard cubic feet of input natural gas.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Source Emission Characteristics**

*This equipment shall be connected to the stack specified below.*

Stack Height (feet): 82

Stack Diameter (inches): 42

Stack Exhaust Flow Rate (acfm): 10500

Stack Temperature (°F): 425

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-1245-S3

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-19**

### Associated Equipment

Associated Emission Unit ID Number: EU19-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU19-1

Emission Unit Description: Carver Pavilion Generator

Raw Material/Fuel: Diesel

Rated Capacity: 13.8 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 98-A-942-S2

Pollutant: Opacity

Emission Limits: 20 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 98-A-942-S2

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Iowa DNR Construction Permit 98-A-942-S2

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: This generator shall be operated a maximum of 500 hours per 12-month rolling period.

Process Throughput: This generator shall be fired by diesel fuel only.

The maximum sulfur content of any fuel used in this generator shall not exceed 0.05% by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. The number of hours this generator is operated. Calculate and record, monthly and 12 month totals rolled monthly.
2. The sulfur content of any fuel used in this generator, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 98-A-942-S2

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (feet): 106

Stack Diameter (inches): 8

Stack Exhaust Flow Rate (acfm): 11860

Stack Temperature (°F): 962

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 98-A-942-S2

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-20**

### Associated Equipment

Associated Emission Unit ID Number: EU20-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU20-1

Emission Unit Description: Colloton Pavilion West Fuel Tank

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 15,000 gallons

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Not applicable at this time.

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Reports and Recordkeeping:

In accordance with the applicable specific requirements as provided in 40 CFR 60 Subpart Kb, this facility shall maintain records of the dimension of this tank and an analysis showing the capacity of this tank, on-site at all times. The permittee shall maintain a record of the Volatile Organic Liquid (VOL) stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

Authority for Requirement: NSPS 40 CFR 60.116b Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

### **Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*



**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-24**

### Associated Equipment

Associated Emission Unit ID Number: EU24-UST-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU24-UST-1

Emission Unit Description: PFP Fuel Tank

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 15,000 gallons

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Not applicable at this time.

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Reports and Recordkeeping:

In accordance with the applicable specific requirements as provided in 40 CFR 60 Subpart Kb, this facility shall maintain records of the dimension of this tank and an analysis showing the capacity of this tank, on-site at all times. The permittee shall maintain a record of the Volatile Organic Liquid (VOL) stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

Authority for Requirement: NSPS 40 CFR 60.116b Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

### **Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-22**

### Associated Equipment

Associated Emission Unit ID Number: EU22-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU22-1

Emission Unit Description: Pappajohn Pavilion Fuel Tank

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 15,000 gallons

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Not applicable at this time.

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Reports and Recordkeeping:

In accordance with the applicable specific requirements as provided in 40 CFR 60 Subpart Kb, this facility shall maintain records of the dimension of this tank and an analysis showing the capacity of this tank, on-site at all times. The permittee shall maintain a record of the Volatile Organic Liquid (VOL) stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

Authority for Requirement: NSPS 40 CFR 60.116b Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception(s) listed below, this emission point will come into compliance by meeting the following conditions:**

### **Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*

**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-25**

### Associated Equipment

Associated Emission Unit ID Number: EU25-1

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU25-1

Emission Unit Description: Hospital School Generator

Raw Material/Fuel: Diesel

Rated Capacity: 2.57 MMBtu/hr

### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

See Plant-Wide Conditions Reporting and Recordkeeping

Hours of operation: This generator is limited to operating 500 hours per twelve-month rolling period.

Process Throughput: The sulfur content of the diesel fuel is limited to 0.05 % by weight.

Reporting and Recordkeeping: Records must be maintained onsite for at least five years and made available to the DNR upon request. The owner or operator shall maintain the following records:

1. The number of hours of operation per twelve-month rolling period.
2. The sulfur content of the diesel fuel used.

Authority for Requirement: 567 IAC 22.108(13)

**Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**This point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.**

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

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## **Emission Point ID Number: EP-27**

### Associated Equipment

Associated Emission Unit ID Numbers: EU27-1

Emissions Control Equipment ID Number: CE-27

Emissions Control Equipment Description: Baghouse with cyclone

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## **Applicable Requirements**

Emission Unit vented through this Emission Point: EU27-1

Emission Unit Description: Hospital School Wood Shop

Raw Material/Fuel: sawdust

Rated Capacity: 1200 scfm

### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Opacity

Emission Limits: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Not applicable at this time.

### **Compliance Plan**

*The owner/operator of this equipment shall comply with the applicable requirements listed below.*

**With the exception listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner. For the exception listed below, this emission point will come into compliance by meeting the following conditions:**

#### **Exception**

*1. For this point to come into compliance, a construction permit is required for the emission unit vented through this point.*



**Condition**

*The permittee has applied for a construction permit from the Iowa Department of Natural Resources. This point will be in compliance at the time the construction permit for this emission point is issued.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:** None required at this time.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

## IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

### **G1. Duty to Comply**

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105(2)"h"*3.
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108(1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108(14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108(9)"b"*

### **G2. Permit Expiration**

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, four or more copies of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

### **G3. Certification Requirement for Title V Related Documents**

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107(4)*

### **G4. Annual Compliance Certification**

On or before March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable

department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. 567 IAC 22.108 (15)"e"

#### **G5. Semi-Annual Monitoring Report**

On or before March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. 567 IAC 22.108 (5).

#### **G6. Annual Fee**

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid by July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
  - a. Form 1.0 "Facility Identification";
  - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
  - c. Form 5.0 "Title V annual emissions summary/fee"; and
  - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
  - a. Form 1.0 "Facility Identification";
  - b. Form 5.0 "Title V annual emissions summary/fee";
  - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

#### **G7. Inspection of Premises, Records, Equipment, Methods and Discharges**

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

#### **G8. Duty to Provide Information**

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

#### **G9. General Maintenance and Repair Duties**

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

#### **G10. Recordkeeping Requirements for Compliance Monitoring**

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records:
  - a. The date, place and time of sampling or measurements
  - b. The date the analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses; and
  - f. The operating conditions as existing at the time of sampling or measurement.
  - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source, which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
  - a. Comply with all terms and conditions of this permit specific to each alternative scenario.

- b. Maintain a log at the permitted facility of the scenario under which it is operating.
- c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

#### **G11. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

#### **G12. Hazardous Release**

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in *567 IAC 131.2(2), 567 IAC Chapter 131-State Only*

#### **G13. Excess Emissions and Excess Emissions Reporting Requirements**

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment, which does not require the shutdown of the process equipment, shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

##### **2. Excess Emissions Reporting**

- a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup,

shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1) ) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
  - ii. The estimated quantity of the excess emission.
  - iii. The time and expected duration of the excess emission.
  - iv. The cause of the excess emission.
  - v. The steps being taken to remedy the excess emission.
  - vi. The steps being taken to limit the excess emission in the interim period.
- b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

#### **G14. Permit Deviation Reporting Requirements**

A deviation is an instance when any condition of this permit is violated. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above. Any violation of an applicable requirement shall be reported to the appropriate regional office by telephone or in person within seven (7) days of the violation. This report shall include the probable cause of such violation, and any corrective actions or preventive measures taken. Any other deviations shall be documented in the semi-annual report. *567 IAC 22.108(5)"b"*.

#### **G15. Notification Requirements for Sources That Become Subject to NSPS and HAP Regulations**

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants) or section 112 of the Act. This notification shall be submitted in writing to the department 30 days before the source becomes subject to the afore-mentioned standard or other requirement. *40 CFR part 63.9 as adopted in 567 IAC 23.1(4); 40 CFR part 60.7 as adopted in 567 IAC 23.1(2)*

#### **G16. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification**

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
  - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
  - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
  - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
  - d. The changes are not subject to any requirement under Title IV of the Act.
  - e. The changes comply with all applicable requirements.
  - f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
    - i. A brief description of the change within the permitted facility,
    - ii. The date on which the change will occur,
    - iii. Any change in emission as a result of that change,
    - iv. The pollutants emitted subject to the emissions trade
    - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
    - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
    - vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 22.110.(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110.(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110.(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110.(4)*
5. Aggregate Insignificant Emissions. The permittee shall not construct, establish or operate any new insignificant activities or modify any existing insignificant activities in such a way that the emissions from these activities no longer meet the criteria of aggregate insignificant emissions. If the aggregate insignificant emissions are expected to be exceeded, the permittee shall submit the appropriate permit modification and receive approval prior to making any change. *567 IAC 22.103.(2)*
6. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108 (11)*

#### **G17. Duty to Modify a Title V Permit**

##### **1. Administrative Amendment.**

- a. An administrative permit amendment is a permit revision that is required to do any of the following:
  - i. Correct typographical errors
  - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
  - iii. Require more frequent monitoring or reporting by the permittee; or
  - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
- b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
- c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

##### **2. Minor Permit Modification.**

- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
  - i. Do not violate any applicable requirements
  - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
  - iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
  - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which



the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;

- v. Are not modifications under any provision of Title I of the Act; and
- vi. Are not required to be processed as significant modification.

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
- ii. The permittee's suggested draft permit
- iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and
- iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113*

The permittee shall submit an application for a significant permit modification at least 6 months, but not more than 18 months prior to the date of the proposed modification. *567 IAC 22.105(1)a(2)*

#### **G18. Duty to Obtain Construction Permits**

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)*

#### **G19. Asbestos**

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when conducting any renovation or demolition activities at the facility. *IAC 23.1(3)"a", and 567 IAC 23.2*

#### **G20. Open Burning**

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. 567 IAC 23.2 except 23.2(3)"h"; 567 IAC 23.2(3)"h" - State Only

#### **G21. Acid Rain (Title IV) Emissions Allowances**

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited.

Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. 567 IAC 22.108(7)

#### **G22. Stratospheric Ozone and Climate Protection (Title VI) Requirements**

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as

used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant, 5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

### **G23. Permit Reopenings**

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
  - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
  - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to June 25, 1993.
  - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
  - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to June 25, 1993, provided that the reopening may be stayed pending judicial review of that determination;
  - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
  - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
  - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
  - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

**G24. Permit Shield**

Compliance with the conditions of this permit shall be deemed compliance with the applicable requirements included in this permit as of the date of permit issuance.

This permit shield shall not alter or affect the following:

1. The provisions of section 303 of the Act (emergency orders), including the authority of the administrator under that section;
2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
3. The applicable requirements of the acid rain program, consistent with section 408(a) of the Act;
4. The ability of the department or the administrator to obtain information from the facility pursuant to section 114 of the Act. *IAC 22.108 (18)*

**G25. Severability**

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

**G26. Property Rights**

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

**G27. Transferability**

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

**G28. Disclaimer**

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

**G29. Notification and Reporting Requirements for Stack Tests or Monitor Certification**

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with an applicable requirement. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator  
Iowa DNR, Air Quality Bureau  
7900 Hickman Road, Suite #1  
Urbandale, IA 50322  
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

*567 IAC 25.1(7)"a", 567 IAC 25.1(9)*

**G30. Prevention of Air Pollution Emergency Episodes**

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons. *567 IAC 26.1(1)*

**G31. Contacts List**

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits  
EPA Region 7  
Air Permits and Compliance Branch  
901 North 5<sup>th</sup> Street  
Kansas City, KS 66101  
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau  
Iowa Department of Natural Resources  
7900 Hickman Road, Suite #1  
Urbandale, IA 50322  
(515) 242-5100

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

**Field Office 1**

909 West Main – Suite D  
Manchester, IA 52057  
(319) 927-2640

**Field Office 3**

1900 N. Grand Ave.  
Spencer, IA 51301  
(712) 262-4177

**Field Office 5**

607 East 2nd St.  
Des Moines, IA 50309  
(515) 281-9069

**Polk County Public Works Dept.**

Air Quality Division  
5895 NE 14th St.  
Des Moines, IA 50313  
(515) 286-3351

**Field Office 2**

P.O. Box 1443  
2300-15th St., SW  
Mason City, IA 50401  
(515) 424-4073

**Field Office 4**

706 Sunnyside  
Atlantic, IA 50022  
(712) 243-1934

**Field Office 6**

1004 W. Madison  
Washington, IA 52353  
(319) 653-2135

**Linn County Health Dept.**

Air Pollution Control Division  
501 13th St., NW  
Cedar Rapids, IA 52405  
(319) 398-3551

